

**Abstract**

The invention relates to a carrier medium (10, 20, 30, 30') for analyzing an analyte, to which biological and/or chemical substances (A through I) are applied in at least two defined regions (11, 21, 31, 31'), with a code (12, 32, 3') showing which biological and/or chemical substance (A through I) is located in which of the defined regions (11, 21, 31, 31'). The invention also relates to a method for manufacturing carrier media with the following steps:

- a. producing a set of identical carrier media (30) having a first arrangement of the defined regions (31) and/or a first arrangement of the biological and/or chemical substances (A through I) within the defined regions (31),
- b. assigning a different code (32) to each of these carrier media (30),
- c. storing the arrangement of the defined regions (31) and/or the arrangement of the biological and/or chemical substances (A through I) within the defined regions (31) of the carrier media (30) along with the associated code (32),
- d. selecting a second arrangement of the defined regions (31), and/or of the biological and/or chemical substances (A through I) in the defined regions (31), that is different from the first arrangement,
- e. implementing steps a through c for the second arrangement,
- f. implementing steps a through c for subsequent arrangements different from the arrangements already used.

The invention also relates to a device for reading a carrier medium with at least one optical detector per defined region (31) on the carrier medium (30), by which the optical detectors detect the reactions of the biological and/or chemical substances (A through I) in the defined regions (31) on the analyte as signals as soon as the carrier medium (30) is brought into a reading position relative to device (50) and a method for reading a carrier medium with a device for reading a carrier medium with the steps:

- a. applying the analyte to the carrier medium (30),
- b. moving the carrier medium (30) into the read position relative to the device (50) for reading the carrier medium (30),
- c. transmitting the code (32) of the carrier medium (30) to an administrative center,
- d. within the administrative center, evaluating the code (32) and determining the associated arrangement.

Figure 1